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### NOTICE OF ALLOWANCE AND FEE(S) DUE

24240

7590

05/26/2009

CHAPMAN AND CUTLER 111 WEST MONROE STREET CHICAGO, IL 60603 EXAMINER

D'ANIELLO, NICHOLAS P

ART UNIT PAPER NUMBER

1793 DATE MAILED: 05/26/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/549,878	05/15/2006	Tatsuo Kubouchi	1716869	5883

TITLE OF INVENTION: MULTILAYER CAPACITOR AND METHOD FOR MANUFACTURING MULTILAYER CAPACITOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/26/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	OR	ATTO	DRNEY DOCKET NO.	CONFIRMATION NO.
10/549,878 TITLE OF INVENTION	05/15/2006 I: MULTILAYER CAPA	CITOR AND METHOD	Tatsuo Kubouchi FOR MANUFACTUR	NG MULTILAYE	R CAPA	1716869 CITOR	5883
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	08/26/2009
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D'ANIELLO,	NICHOLAS P	1793	228-112100				
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CHAPMAN AN	D CUTLER	D'ANIELLO, NICHOLAS P				
111 WEST MONE		ART UNIT PAPER NUMBER				
CHICAGO, IL 606	503		1793			
		DATE MAILED: 05/26/2009				

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 492 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 492 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/549,878	KUBOUCHI ET AL.				
Notice of Allowability	Examiner	Art Unit				
	Nicholas P. D'Aniello	1793				
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED ir or other appropriate commul GHTS. This application is s	n this application. If not included unication will be mailed in due course. <b>THIS</b>				
1. This communication is responsive to <u>18 February 2009</u> .						
2. $\square$ The allowed claim(s) is/are <u>2-21</u> .						
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ul>	be been received. been received in Application	on No				
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements				
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give						
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.					
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached						
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t						
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>						
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No./ 7. ☒ Examiner's	formal Patent Application  ummary (PTO-413),  Mail Date  Amendment/Comment  Statement of Reasons for Allowance				
	/Stanley Silveri Supervisory Pa	man/ tent Examiner, Art Unit 1793				

Application/Control Number: 10/549,878

Art Unit: 1793

### **DETAILED ACTION**

Page 2

#### Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jane Berman on May 12<sup>th</sup> 2009.

The application has been amended as follows:

In claim 2, line 5: after "partly comprising connecting portions" insert --without said electrically insulating separators interposed therebetween-- before ";"

In claim 6, line 5: after "partly comprising connecting portions" insert --without said electrically insulating separators interposed therebetween-- before ";"

In the specification:

On page 12 line 19: after "Figs. 12" insert -- (a) and (b) an embodiment with capacitors of the same height and Figs. 12 (c) and (d) an embodiment with capacitors of the differing heights"

On page 12 line 29: after "Figs. 15" insert -- (a) through (f)--

On page 12 line 33: after "Figs. 17" insert -- (a) and (b)--

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# Allowable Subject Matter

Claims 2-21 are allowed. Claims 2 and 6 define a friction stir welding process for the manufacture of a capacitor (with a plurality of metal foils and insulating layers) where connecting portions are welded to positive and negative external electrodes by friction stir welding; where the connecting portions do not have the insulating material between the foils and either a reinforcing or welding base material placed on one side/adjacent to the stacked connecting portions. The prior art as a whole fails to anticipate or fairly render obvious this process. The closest prior art, Ichimura et al. (JP 2004-79769) connects metal foil 3 of a capacitor to an electrode 1 however does not have a plurality of foils or insulating layers and the connecting portions include the insulating material 4 (see figure 1a, abstract).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Inquiries

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nicholas P. D'Aniello whose telephone number is (571)270-3635. The examiner can normally be reached on Monday through Thursday from 8am to 5pm (EST).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jessica Ward can be reached on (571) 272-1223. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nicholas P D'Aniello/ Examiner, Art Unit 1793

/Stanley Silverman/ Supervisory Patent Examiner, Art Unit 1793